# PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORTED

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# (PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
Applicant's or agent's the reference	FOR FURTHER ACTION  Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/mor	nth/year)	Priority date (day/month/year)				
PCT/US02/28726	09 September 2002 (09.09.2002) 07 May 2002 (07.05.2002)						
International Patent Classification (IPC)	or national classification and IPC						
	IPC(7): C04B 24/00 and US CI.: 106/724, 823						
Applicant							
WASTE MARKETS CORPORATION							
	nary examination report has bee	en prepared by	this International Preliminary				
	1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of $\frac{1}{4}$ sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings						
which have been am	ended and are the basis for this v (see Rule 70.16 and Section 6	report and/or s 07 of the Admi	sheets containing rectifications made nistrative Instructions under the PCT).				
These annexes consist of	2						
These americs consist of							
3. This report contains indic	cations relating to the following	items:					
I Basis of the re	port						
II Priority	· ·						
III Non-establishm	ent of report with regard to novelty, inventive step and industrial applicability						
IV Lack of unity	of invention						
	ment under Article 35(2) with regard to novelty, inventive step or industrial itations and explanations supporting such statement						
VI Certain docum	ents cited						
VII Certain defects	in the international application						
VIII Certain observ	ations on the international application						
Date of submission of the demand	Date	of completion	of this report				
21 November 2003 (21.11.2003)		07 September 2004 (07.09.2004)					
Name and mailing address of the IPEA/US		orized officer	0. 06 1/01				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	Pau	l Marcantoni	Amf Will-				
P.O. Box 1450 Alexandria, Virginia 22313-1450			272 1272				
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Form PCT/IPEA/409 (cover sheet)(July 1998)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International apprication No.
PCT/US02/28726

I.	Basis	s of the report			
1.	With 1	regard to the elements of the international application:*			
		the international application as originally filed.			
		the description:			
		pages 1-8 as originally filed			
		pages NONE, filed with the demand pages NONE, filed with the letter of			
	K 7	-			
	K	the claims: pages 11 , as originally filed			
		pages 11 , as originally filed pages NONE , as amended (together with any statement) under Article 19			
		0 10 tilled with the demond			
		pages NONE, filed with the letter of			
		the drawings:			
		pages 1, as originally filed			
		pages NONE, filed with the demand pages NONE, filed with the letter of			
		the sequence listing part of the description:			
		pages NONE, as originally filed pages NONE, filed with the demand			
		pages NONE, filed with the letter of			
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the			
-	langu	uage in which the international application was filed, unless otherwise indicated under this item.			
	These	e elements were available or furnished to this Authority in the following language which is:			
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).			
		the language of publication of the international application (under Rule 48.3(b)).			
		the language of the translation furnished for the purposes of international preliminary examination(under Rules			
		55.2 and/or 55.3).			
3.	With inter	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:			
		contained in the international application in printed form.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
		international application as filed has been furnished.			
		The statement that the information recorded in computer readable form is identical to the written sequence listing			
		has been furnished.			
4.		The amendments have resulted in the cancellation of:			
		the description, pages NONE			
		the claims, Nos. NONE			
		the drawings, sheets/fig NONE			
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go			
	p '	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).					
**	* Any 1	replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.			



International application No. PCT/US02/28726

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims NONE		YES			
1.6. ca. <b>y</b> (2.)	Claims 1-24		No			
Inventive Step (IS)	Claims NONE					
	Claims 1-24		NO			
Industrial Applicability (IA)	Claims 1-24		YES			
industrial reprivatintly (171)	Claims NONE		NO			
Claims 1-24 the criteria set out in PCT Article 33(described be made or used in industry.  It is known to used cement or concrete in the const Is certainly critical.						
NEW CITATIONS	and an	•				
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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US02/28726

# VII. Certain defects in the international application The following defects in the form or contents of the international application have been noted: There are two identical claim 23's in the listing of claims. One of these claims must be canceled.

## What is claimed is:

- A method of recycling waste comprising:
   obtaining a liquid waste material resulting from the manufacture of a first product;
   and
   utilizing the obtained liquid waste material as an air entraining admixture in the
   production of a second product.
- 2. The method of claim 1 wherein the waste material has a pH greater than 8.0.
- 3. The method of claim 1 wherein the waste material has a BOD greater than 1000 mg/L.
- 4. The method of claim 1 wherein the waste material comprises water, at least one surfactant, and at least one fragrance.
- 5. The method of claim 1 wherein the waste material causes foaming in aeration tanks of treatment plants.
- 6. The method of claim 1 wherein the waste material is a soap or shampoo.
- 7. The method of claim 1 wherein the first product is a soap or shampoo.
- 8. The method of claim 1 wherein the first product is a product adapted to be used to wash a person's skin or hair.
- 9. The method of claim 1 wherein the second product comprises cement, and the waste material is used in formation of at least some of the clinker used in the cement.
- 10. The method of claim 10 wherein the waste is added during finish grinding of the clinker.
- 11. The method of claim 1 wherein the second product comprises concrete, and the waste material is mixed with cement and water to form the concrete.
- 12. The method of claim 1 wherein the second product comprises concrete, and substantially all of the water in the concrete is water from the waste material.

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- 13. The method of claim 1 wherein the waste material comprises at least one of the following: materials not meeting specifications, expired product, and discontinued product.
- 14. The method of claim 1 wherein the waste materials comprises rinse water used in purging of lines, clean-up operations, and rinsing of equipment and tanks.
- 15. The method of claim 1 wherein the method comprises:

  obtaining a waste material resulting from the manufacture of a shampoo, the waste

  material comprising essentially shampoo or diluted shampoo; and

  utilizing the obtained waste material as an air entraining admixture in the production

  of a concrete comprising clinker and water, the waste material being added to

  the concrete either as part of the clinker or as an ingredient in addition to the

  clinker and water.
- 16. A cement product comprising a waste material generated during the manufacture of a first product as an air entraining admixture.
- 17. The cement product of claim 16, the product comprising a cement wherein the amount of waste material is 0.05% to 0.75% of the amount of cement clinker on a weight to weight basis of the cement.
- 18. The cement product of claim 16 wherein the cement product is concrete.
- 19. The concrete of claim 18 wherein the amount of waste materials is 0.05% to 3% of the amount of cement on a weight-to-weight basis used in the concrete.
- 20. The concrete of claim 18 wherein the amount of waste materials is 5% to 20% of the amount of cement on a weight-to-weight basis used in the concrete.
- 21. The cement product of claim 16 wherein the cement product is a concrete structure.
- 22. The cement product of claim 16 wherein the cement product is cement comprising calcined shampoo waste.
- 23. The cement product of claim 16 wherein the cement product is concrete comprising shampoo waste.

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